

CLAIMS

1. A method of forming a conductive pattern,
comprising the steps of:

(1a) applying a positive, energy-sensitive paste

5 composition containing a conductive powder to a substrate,
followed by drying, to form a positive, energy-sensitive
coating;

(2a) irradiating the coating with active energy rays or
heat rays directly or through a mask so as to obtain a
10 desired pattern; and

(3a) removing the irradiated part of the coating by
development to form a conductive pattern coating.

2. A method according to Claim 1, wherein the
positive, energy-sensitive paste composition is a positive,
15 visible light-sensitive paste composition.

3. A method according to Claim 1, wherein the
positive, energy-sensitive paste composition is a positive,
ultraviolet-sensitive paste composition.

4. A method according to Claim 1, wherein the
20 positive, energy-sensitive paste composition is a positive
thermosensitive paste composition.

5. A method according to Claim 1, wherein the
positive, energy-sensitive paste composition further
contains a heat-fusible inorganic powder and wherein
25 calcination is carried out after Step (3a).

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6. A method according to Claim 5, wherein the heat-fusible inorganic powder is a glass frit.

7. A method of forming a conductive pattern, comprising the steps of:

5 (1b) applying a positive, energy-sensitive paste composition containing a conductive powder to a surface of release film, followed by drying, to form a dry film having a positive, energy-sensitive layer;

(2b) superimposing the dry film onto a substrate in such a
10 manner that the surface of the positive, energy-sensitive
layer is in contact with the substrate, to form a positive,
energy-sensitive coating, and then peeling off the release
film;

(3b) irradiating the coating with active energy rays or
15 heat rays directly or through a mask so as to obtain a
desired pattern; and

(4b) removing the irradiated part of the coating by development to form a conductive pattern coating.

8. A method according to Claim 7, wherein the
20 positive, energy-sensitive paste composition is a positive,
visible light-sensitive paste composition.

9. A method according to Claim 7, wherein the positive, energy-sensitive paste composition is a positive, ultraviolet-sensitive paste composition.

25 10. A method according to Claim 7, wherein the

positive, energy-sensitive paste composition is a positive thermosensitive paste composition.

11. A method according to Claim 7, wherein the positive, energy-sensitive paste composition further
5 contains a heat-fusible inorganic powder and wherein calcination is carried out after Step (4b).

12. A method according to Claim 11, wherein the heat-fusible inorganic powder is a glass frit.

13. A method of forming a conductive pattern,
10 comprising the steps of:
(1c) applying a positive, energy-sensitive paste composition containing a conductive powder to a surface of release film, followed by drying, to form a dry film having a positive, energy-sensitive layer;
15 (2c) superimposing the dry film onto a substrate in such a manner that the surface of the positive, energy-sensitive layer is in contact with the substrate, to form a positive, energy-sensitive coating;
(3c) irradiating the coating with active energy rays or
20 heat rays through the release film with or without a mask so as to obtain a desired pattern; and
(4c) peeling off the release film, and removing the irradiated part of the coating by development to form a conductive pattern coating.

25 14. A method according to claim 13, wherein the

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positive, energy-sensitive paste composition is a positive, visible light-sensitive paste composition.

15. A method according to claim 13, wherein the positive, energy-sensitive paste composition is a positive, ultraviolet-sensitive paste composition.

16. A method according to Claim 13, wherein the positive, energy-sensitive paste composition is a positive, thermosensitive paste composition.

17. A method according to Claim 13, wherein the positive, energy-sensitive paste composition further contains a heat-fusible inorganic powder and wherein calcination is carried out after Step (4c).

18. A method according to Claim 17, wherein the heat-fusible inorganic powder is a glass frit.

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